

Fig.1 SEQ ID NO:1. *Arthrobacter* hsp70 DNA sequence (5' to 3'), 2464 nt including 5' and 3' UTR. The predicted ORF (nt 291-2156) is underlined

CTGCGAATGTCCACGTGGTGCAGTGATGCGCTTGAAGGGCATCGCACCGCGCTGAA
CCGGGTTTCGACCCGGTCCCCTGAGTTTCGCCAACTGAGTGGGACAAGCCCCGTTCTGTCCC
AGTCACGCGGTCTGACTCAGTGGGACCACGCCGAGCGCGATCGATGGTCGCCGCACAGC
TTTTTCCAAAGTTGAGCACAGGTGGCTCAACTTAGACTTGACATTGGTCGGCTCAAGCGT
AAAGTTGATATCAGAACTCAACTTGTAAGAAATCCCGAAAGGAAAAACATGTCACG
TGCAGTAGGCATCGACCTCGGAACCACCAACTCGGTGGTTTTCCGTCCTCGAAGGCGGCGA
GCCCGTCGTCATCGCGAACGCCGAAGGCGGCCGACCACCCCCTCAGTCGTCGCGTTCTC
CAAGAGCGGTGAAGTCCTGGTCGGCGAAATCGCCAAGCGCCAGGCCGTCAACAACATCG
ATCGCACCATCGCCTCGGTCAAGCGCCACATGGGCACCGACTGGACCGTCGGCATCGACG
ACAAGAAGTACACCGCGCAGGAAATCTCCGCCCGCACCTGATGAAGCTCAAGAACGAC
GCCGAGTCCTACTTGGGCGAAAAGGTCACCGACGCGGTGATCACGGTTCCTGCCTACTTC
AACGACGCCGAGCGCCAGGCCACCAAAGAAGCCGGTGAGATCGCCGGCCTGAACGTGCT
GCGCATCGTCAACGAGCCCCACTGCGGCGGCGCTGGCCTATGGCTTGGACAAAGGCAAAG
AAGACGAACTCATCTGGTCTTCGACCTCGGTGGCGGCACCTTCGACGTCTCGCTGCTGG
AAGTCGGCAAAGACGACGACGGCTTCTCCACGATCCAGGTCCGCGCCACCTCCGGCGAC
AACCGCCTGGGCGGCGACGACTGGGATCAGCGGATCGTCGACTACTTGCTGAACCAGCTC
AAGGTCAAGGGCATCGACCTCTCAAGGACAAGATCGCGCTGCAGCGTCTGCGCGAAGC
TTCCGAGCAGGCCAAGAAGGAACTCTCCTCGGCCACCAGCACCAACATCTCGCTGCAGTA
CCTCTCGGTACCCCTGACGGTCCGGTGCACCTTGGACGAGCAGCTGACCCGGGCGAAGTT
CCAGGAACTGACCGCTGATCTGCTCGAGCGCACCAAGAAGCCGTTCCAGGACGTGATCGC
CGAGGCCGGGATCAAGGTTTCCGACATCGACCACATCGTGCTGGTCGGCGGTTCCACCCG
GATGCCCGCAGTGACCGAATTGGTCAAGCAGCTGGCCGGTGGCAAGGAGCCGAACAAG
GCGTCAACCCGGACGAGGTGGTCGCCGTCGGCGCCGCGCTGCAAGCCGGCGTGCTCAAG
GGCGAACGCAAAGACGTGCTGCTCATCGACGTACCCCGCTTCCCTCGGCATCGAAACC
AAGGGCGGCGTGATGACCAAGCTGATCGAGCGGAACACCGCGATTCCGACCAAGCGGTC
CGAGACCTTCACCACGGCGGACGACAACCAGCCTTCGGTGGCCATCCAGGTGTTCCAAGG
CGAGCGCGAGTTCACCCGGGACAACAAGCCGTTGGGCACCTTCGAACTGACCGGCATCG
CACCGGCTCCGCGCGGCGTGCCGCAGGTCAAGTCACCTTCGACATCGACGCCAACGGCA
TCGTGCACGTGTCGGCCAAAGACAAGGGCACCGGCAAGGAGCAGTCGATGACCATCACC

GGCGGTTCTCGCTGTCCAAGGAAGACATCGAGCGCATGGTCGCCGACGCCGAGGCACA
CGCTGCAGAGGACAAGGCCCGGCGCGAGCAGGCCGAGGCCCGCAACAGCGCCGAGCAGC
TGGCGTACTCGGTGGACAAGATCCTCACCGACAATGACGACAAGCTGCCGGAAGAGGTC
AAGACGGAGGTCAAGGCCGACGTCGGGGCGCTCAAGACCGCGCTGGCCGGCACCGATGA
GGACGCGGTTCGAGGCGGCCCTCGGAGAAGCTGCAGGCTTCGCAGACCAAACCTCGGCGGAG
CGATTTACGCTTCGGCCCAGGCCGAGGGTGCCGCCGCTGCCGGTGACGCCCCGAGCGAAG
GTGCCAAGCCCGACGAAGACATCGTCGACGCCGAGATCGTGGACGAAGAAGAACCGAAG
AACGAGAAGAAGTAGTCATGTCCGACCAGAGCCAATCTGATCAGGGCCGCAACCCCGAA
AAAGACGAAACCGACGTGGACCCGGCAACGGGTCCCGCCGGGGACGTTCCGGAGGAGCA
GGATCCTTTGGCGCAAGTCGAAGACATCCTGAACAATGCCGAGGTGCCCGCCGACGAGTC
GGTGGCCCAGGGCGCCGGGCAGGTGGATGCCGCAGAACTCAAGAACGATCTGCTGCGCT
TGCAGGCCGAATACGTGAACTACCGCAAACGCGTCGAGCGGGACACCAGCCCCGGGCCGT
CGACCACGCGTGCCCTATAGTAAGGGC

Fig.2 SEQ ID NO: 2. Predicted amino acid sequence of *Arthrobacter* hsp70

MSRAVGIDLGTTNSVSVLEGGEPPVIANAEGGRTPSVWAFSKSGEVLVGEIAKRQAVNNI
DRTIASVKRHMGTDWTVGIDDKKYTAQEISARTLMKLKND AESYLGEKVTD AVITVPAYFND
AERQATKEAGEIAGLNLVRIVNEPTAAALAYGLDKGKEDELILVFDLGGGTFDVSLLLEV GKDD
DGFSTIQVRATSGDNRLGGDDWDQRIVDYLLNQLKVKGIDLSKDKIALQRLREASEQAKKEL
SSATSTNISLQYLSVTPDGPVHLDEQLTRAKFQELTADLLERTKKPFQDVIAEAGIKVSDIDHI
VLVGGSTRMPAVTELVKQLAGGKEPNKGVNPDEVVAVGAALQAGVLKGERKDVLLIDVTPL
SLGIETKGGVMTKLIERN TAIPTKRSETFTTADDNQPSVAIQVFQGEREFTRDNKPLGTFELT
GIAPAPRGVPQVEVTFDIDANGIVHVS AKDKGTGKEQSMTITGGSSLSKEDIERMVADAEAH
AAEDKARREQAEARNSAEQLAYSVDKILT DNDKLP EEVKTEVKADVGALKTALAGTDEDA
VEAASEKLQASQTKLGGA IYASQAEGAAAAGDAPSEGA KPDEDIVDAEIVDEE EPKNEKK

predicted pI= 4.70 / predicted size= 66 kDa